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Amendments to the Claims

1. (Original) An apparatus for cleaning a surface within a vessel, the apparatus comprising:
an elongate combustion conduit extending from an upstream end to a downstream end
associated with an aperture in a wall of the vessel and positioned to direct a shock wave toward
said surface; and
a resilient member resiliently restraining the combustion conduit against recoil forces.
2. (Original) The apparatus of claim 1 wherein:
the resilient member couples the combustion conduit to the wall.
3. (Original) The apparatus of claim 1 wherein:
the resilient member comprises a metal coil spring.
4. (Original) The apparatus of claim 1 wherein:
the resilient member comprises a tension spring.
5. (Original) The apparatus of claim 1 further comprising:
a plurality of movable supports supporting weight of the combustion conduit at a plurality
of locations along a length of the combustion conduit.
6. (Original) The apparatus of claim 5 wherein:
the plurality of supports accommodate longitudinal expansion and/or contraction of the
combustion conduit.
7. (Original) The apparatus of claim 5 wherein:
the plurality of supports comprise a plurality of trolleys each having wheels engaging a
track on a support surface.
8. (Original) The apparatus of claim 7 wherein:

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the combustion conduit comprises a plurality of separable segments; and
each of the segments is supported atop a single associated one of the plurality of trolleys.

9. (Original) The apparatus of claim 5 wherein:

the plurality of supports comprise a plurality of hangers.

10. (Withdrawn) A method for cleaning a surface within a vessel of a piece of industrial equipment, the vessel having a wall with an aperture therein, the method comprising:

introducing fuel and oxidizer to a conduit; and

initiating a reaction of the fuel and oxidizer so as to cause a shock wave to impinge upon the surface, a recoil force upon the conduit being resiliently taken up by a resilient member.

11. (Withdrawn) The method of claim 10 wherein:

the resilient member stores energy of the recoil as the conduit shifts from an initial position to a recoiled position and then returns the conduit to the initial position.

12. (Withdrawn) The method of claim 11 wherein:

the shift is at least 0.01 m.

13. (Withdrawn) The method of claim 10 further comprising:

shifting the conduit as a unit along a support mechanism to disengage a downstream end of the conduit from the vessel.

14. (New) An industrial facility comprising:

a vessel having a wall separating an interior from an exterior, there being an aperture in the wall;

a surface within the vessel;

an elongate combustion conduit extending from an upstream end to a downstream end associated with an aperture in the wall and positioned to direct a shockwave toward the surface;
and

a resilient member resiliently restraining the combustion conduit against recoil forces.

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15. (New) The facility of claim 14 wherein the resilient member couples the combustion conduit to the wall.

16. (New) The facility of claim 15 wherein the resilient member comprises a metal coil spring.

17. (New) The facility of claim 14 wherein the surface is formed by a tube bundle.